

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110420\
 Data File : VL035836.D
 Acq On : 4 Nov 2020 16:52
 Operator : SY/AP
 Sample : L4610-04 2X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV4

Manual Integrations
 APPROVED

MMDadoda
 11/5/2020 2:16:52 PM

Quant Time: Nov 05 11:24:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 04
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1042759	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	4751713	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	4358656	10.00	ppbv	-0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	3100386	10.01	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	29140	0.148	ppbv	93
3) Chlorodifluoromethane	2.96	51	16219	0.130	ppbv	98
5) Vinyl Chloride	3.23	62	3617	0.047	ppbv #	66
9) Propene	2.99	41	531575	11.630	ppbv	83
10) Heptane	8.09	43	388131	3.075	ppbv	96
11) Trichlorofluoromethane	3.92	101	27573m	0.112	ppbv	
13) Ethanol	3.60	45	12016m	1.212	ppbv	
15) Acetone	3.82	43	1416379m	12.705	ppbv	
20) Methylene Chloride	4.32	84	51984	0.662	ppbv #	90
26) Hexane	5.66	57	979135	8.084	ppbv #	44
29) Chloroform	5.72	83	87801	0.369	ppbv	88
34) 2-Butanone	5.23	43	45551	0.295	ppbv #	85
36) Benzene	6.86	78	108201	0.306	ppbv #	93
52) Tetrachloroethene	11.20	164	22294	0.133	ppbv	93
53) Toluene	9.78	91	387456	0.909	ppbv	98
58) Ethyl Benzene	12.68	91	174747	0.329	ppbv	97
59) m/p-Xylene	12.94	91	434899	0.968	ppbv	96
60) o-Xylene	13.66	91	167919	0.384	ppbv	98
64) n-propylbenzene	15.54	120	25410	0.128	ppbv #	49
70) n-Butylbenzene	18.54	91	159234	0.238	ppbv	96
74) 1,2,4-Trimethylbenzene	16.74	105	158328	0.305	ppbv #	71

(#) = qualifier out of range (m) = manual integration (+) = signals summed

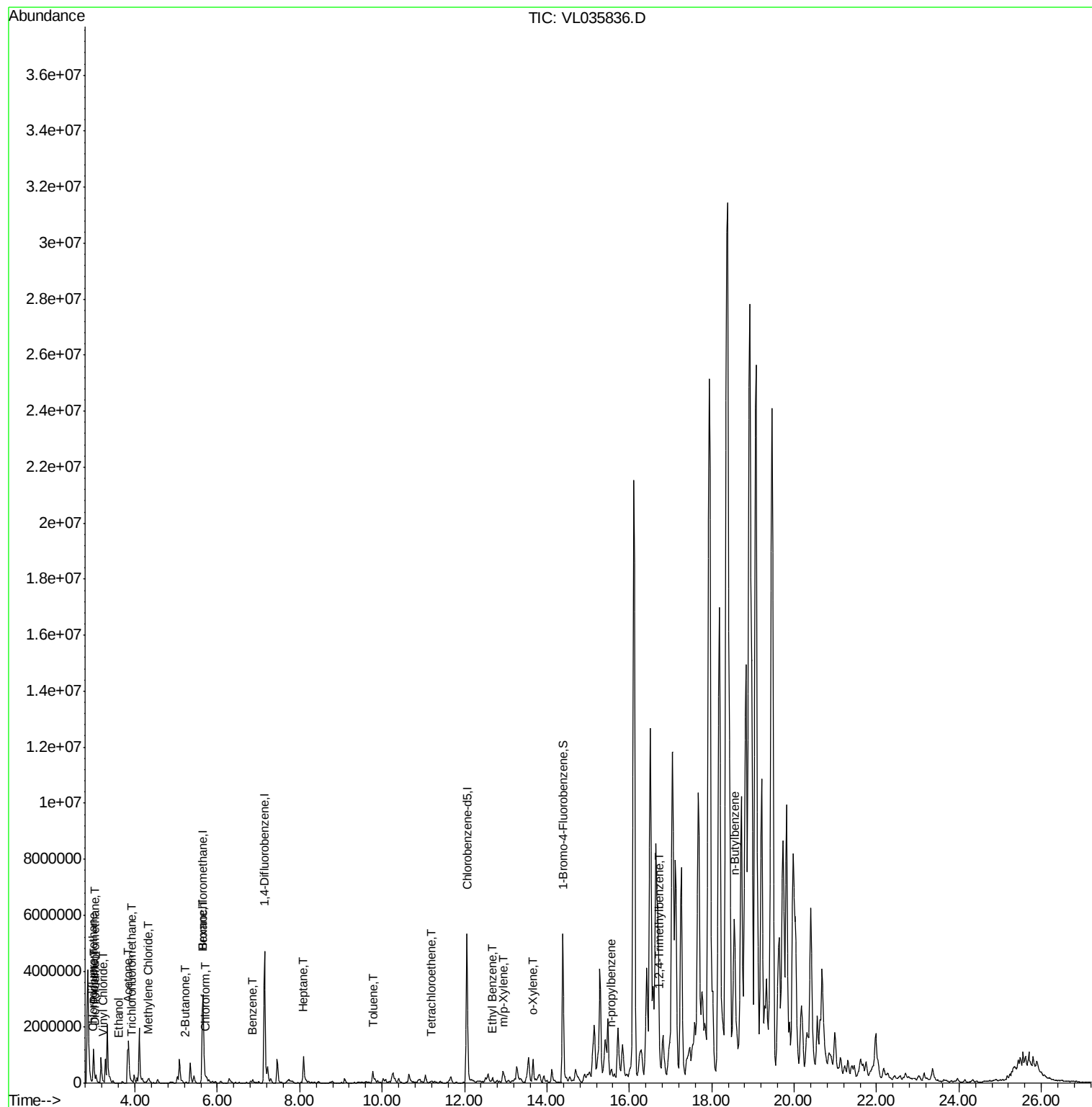
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL110420\
Data File : VL035836.D
Acq On : 4 Nov 2020 16:52
Operator : SY/AP
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11/5/2020 2:16:52 PM

Quant Time: Nov 05 11:24:25 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 887

Delta R.T. -0.03 min

Lab File: VL035836.D

Acq: 4 Nov 2020 16:52

Instrument :

MSVOA_L

ClientSampled :

SV4

Tot Ion: 49 Resp: 1042759

Ion Ratio Lower Upper

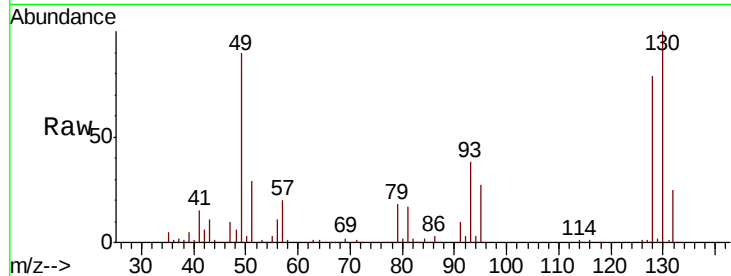
49 100

128 91.2 41.5 124.6

130 116.4 53.7 161.1

Manual Integrations
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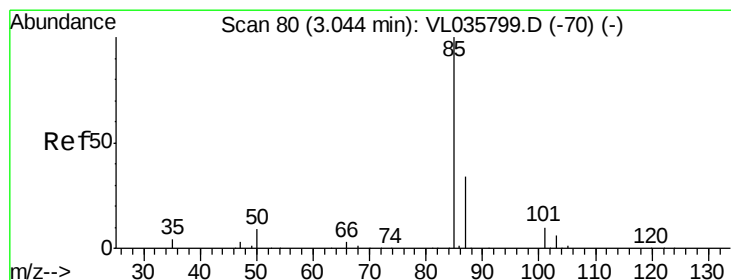
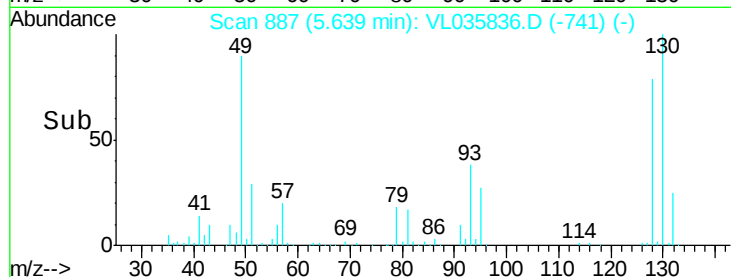
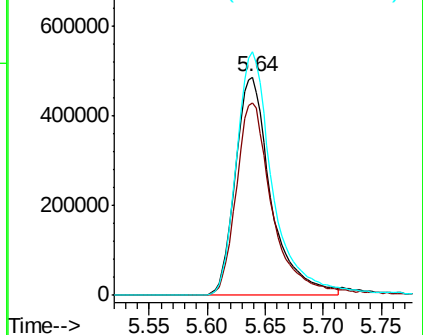
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.148 ppbv

RT: 3.02 min Scan# 74

Delta R.T. -0.02 min

Lab File: VL035836.D

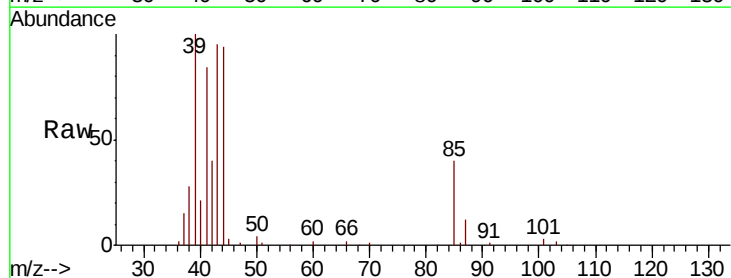
Acq: 4 Nov 2020 16:52

Tgt Ion: 85 Resp: 29140

Ion Ratio Lower Upper

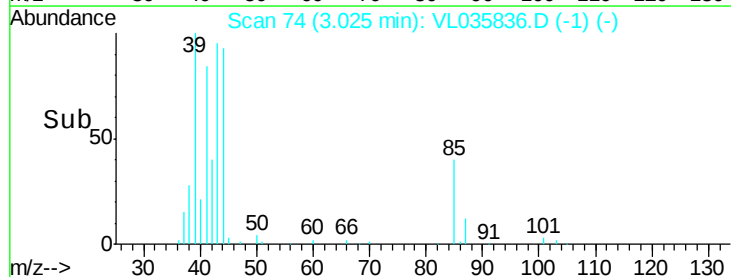
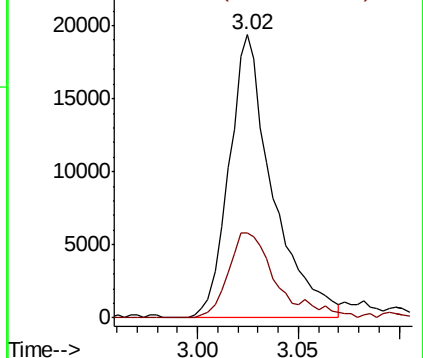
85 100

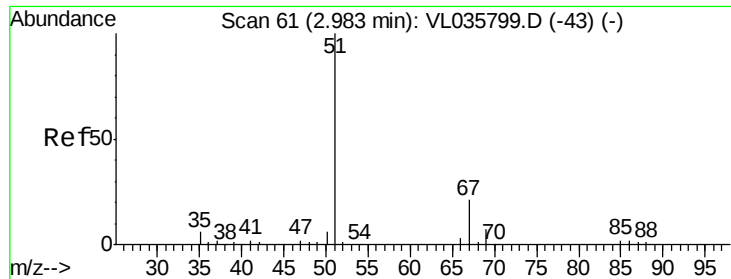
87 29.9 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.130 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.02 min

Lab File: VL035836.D

Acq: 4 Nov 2020 16:52

Instrument :

MSVOA_L

ClientSampleId :

SV4

Tot Ion: 51 Resp: 16219

Ion Ratio Lower Upper

51 100

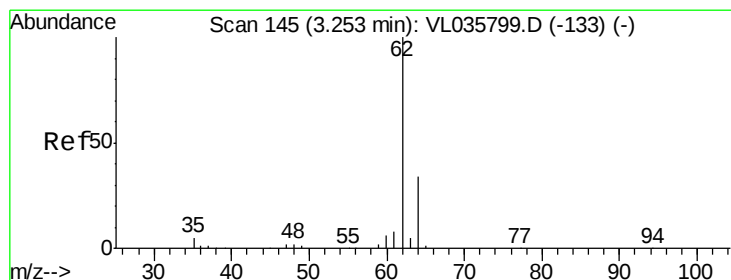
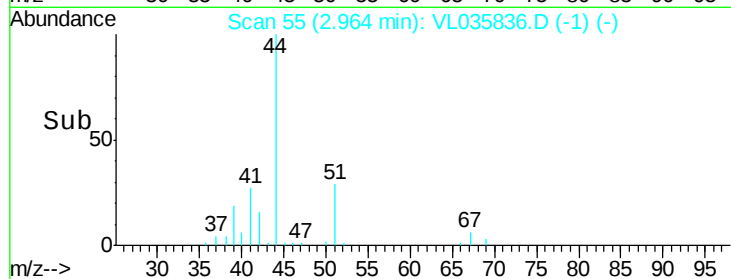
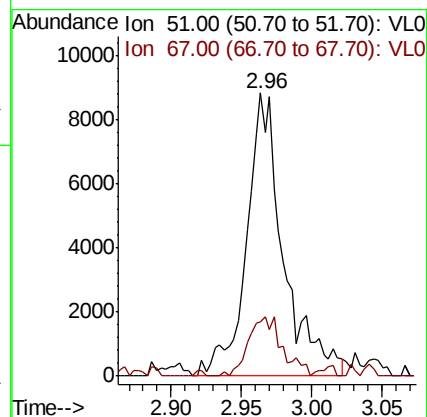
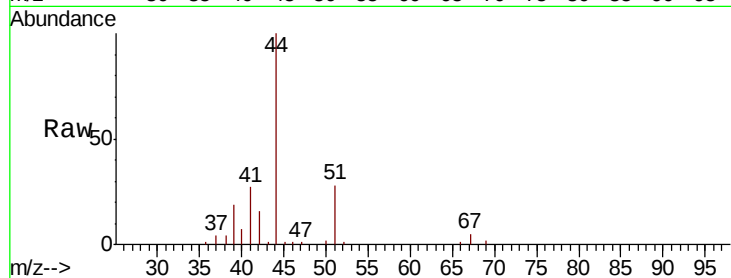
67 20.5 17.0 25.4

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#5

Vinyl Chloride

Concen: 0.047 ppbv

RT: 3.23 min Scan# 139

Delta R.T. -0.02 min

Lab File: VL035836.D

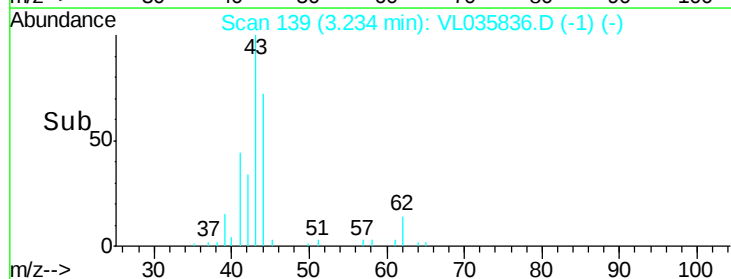
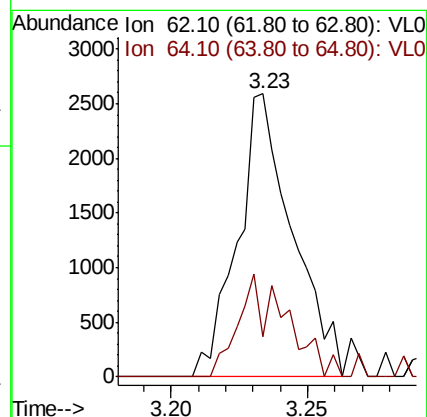
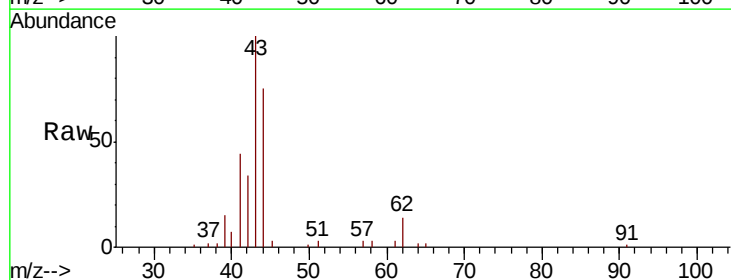
Acq: 4 Nov 2020 16:52

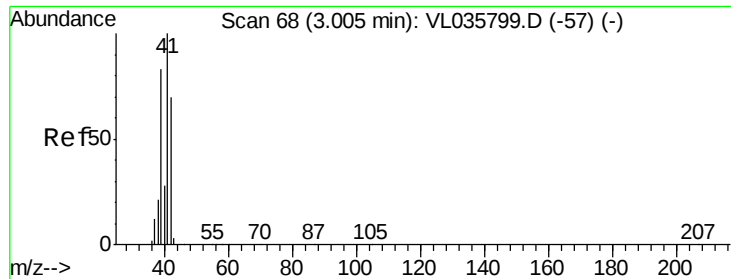
Tgt Ion: 62 Resp: 3617

Ion Ratio Lower Upper

62 100

64 14.3 26.9 40.3#





#9

Propene

Concen: 11.630 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.02 min

Lab File: VL035836.D

Acq: 4 Nov 2020 16:52

Instrument :

MSVOA_L

ClientSampled :

SV4

Tot Ion: 41 Resp: 531575

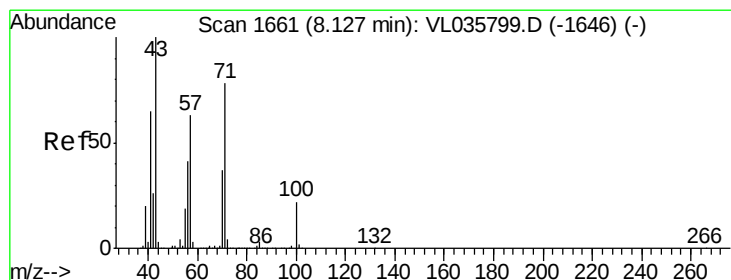
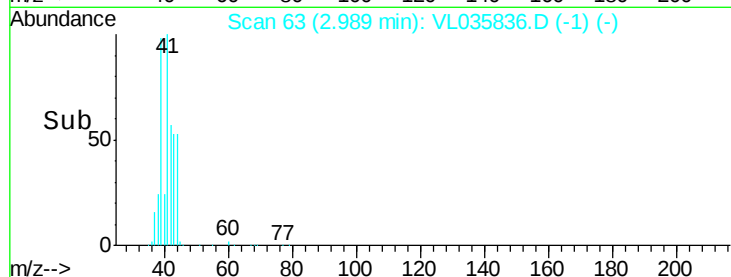
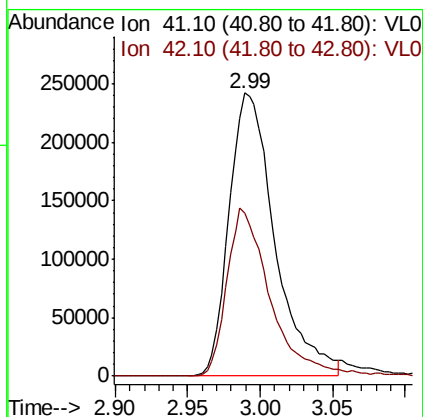
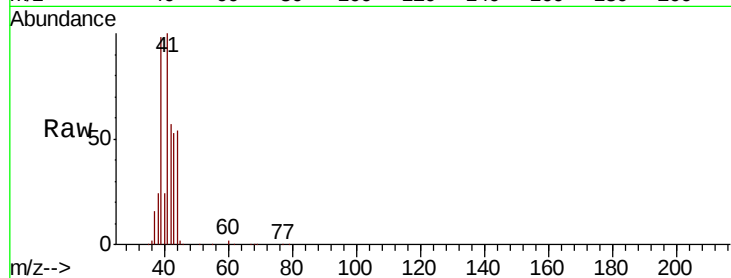
Ion Ratio Lower Upper

41 100

42 56.4 56.2 84.4

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#10

Heptane

Concen: 3.075 ppbv

RT: 8.09 min Scan# 1650

Delta R.T. -0.04 min

Lab File: VL035836.D

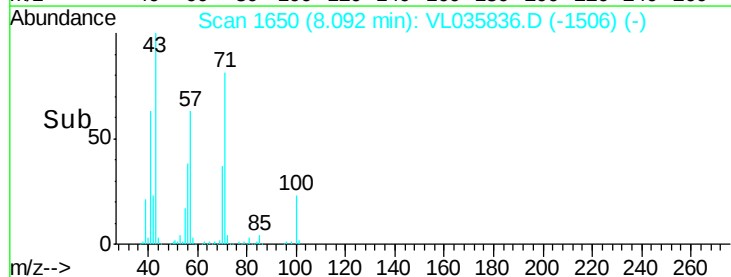
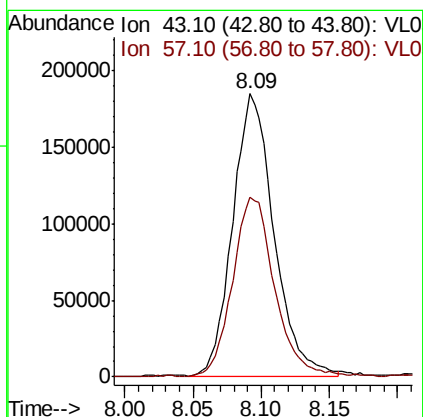
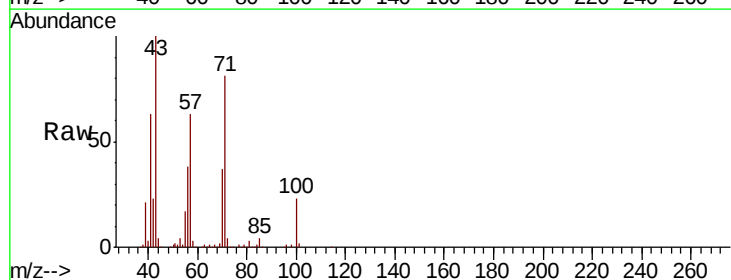
Acq: 4 Nov 2020 16:52

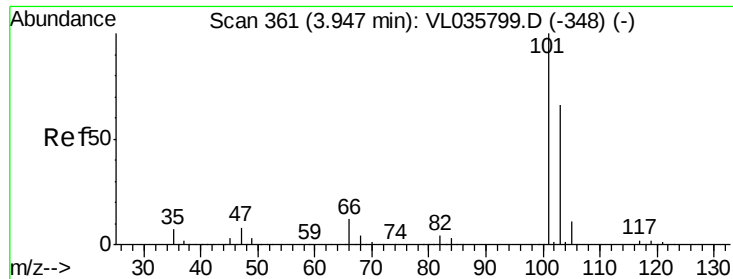
Tgt Ion: 43 Resp: 388131

Ion Ratio Lower Upper

43 100

57 65.7 50.0 75.0





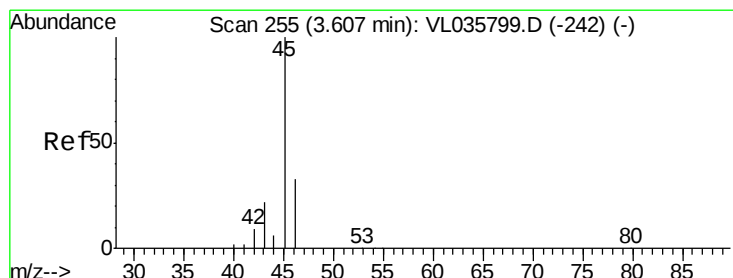
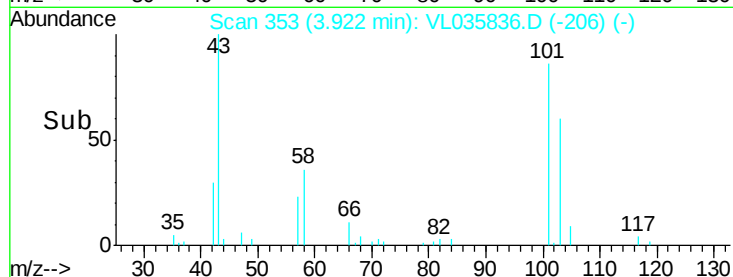
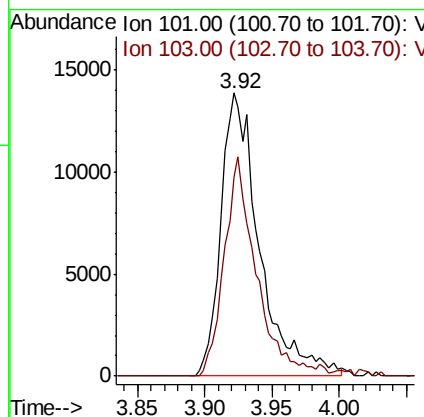
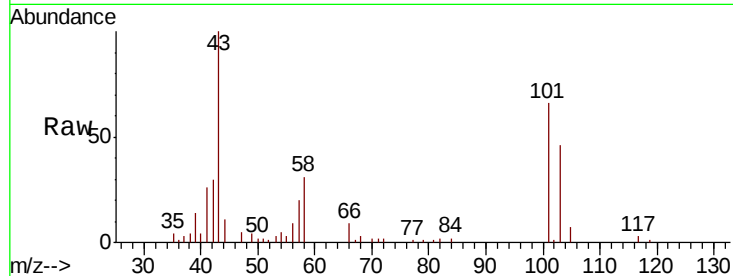
#11
Trichlorofluoromethane
Concen: 0.112 ppbv m
RT: 3.92 min Scan# 353
Delta R.T. -0.03 min
Lab File: VL035836.D
Acq: 4 Nov 2020 16:52

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tot Ion:101 Resp: 27573
Ion Ratio Lower Upper
101 100
103 70.3 53.0 79.4

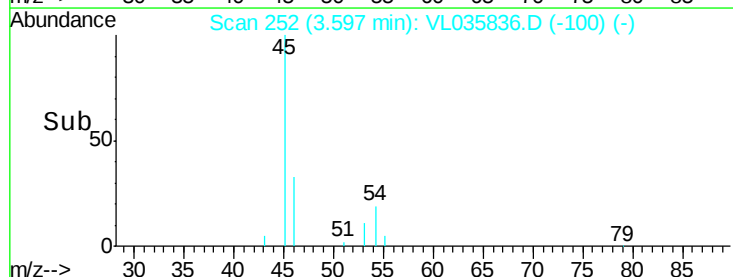
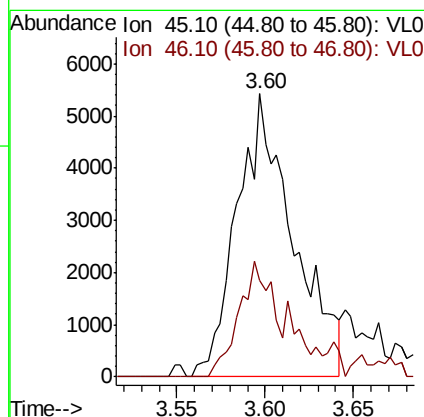
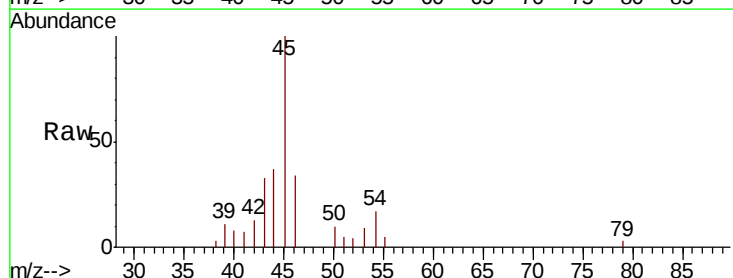
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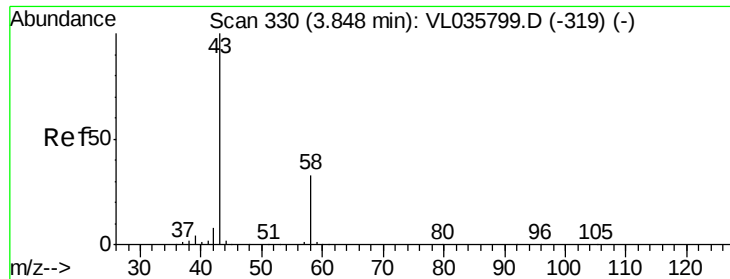
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#13
Ethanol
Concen: 1.212 ppbv m
RT: 3.60 min Scan# 252
Delta R.T. -0.01 min
Lab File: VL035836.D
Acq: 4 Nov 2020 16:52

Tgt Ion: 45 Resp: 12016
Ion Ratio Lower Upper
45 100
46 41.3 16.1 64.5





#15

Acetone

Concen: 12.705 ppbv m

RT: 3.82 min Scan# 322

Delta R.T. -0.03 min

Lab File: VL035836.D

Acq: 4 Nov 2020 16:52

Instrument :

MSVOA_L

ClientSampled :

SV4

Tot Ion: 43 Resp: 1416379

Ion Ratio Lower Upper

43 100

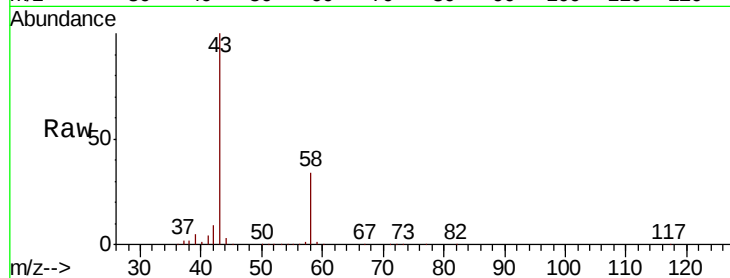
58 41.8 27.5 41.3#

Manual Integrations

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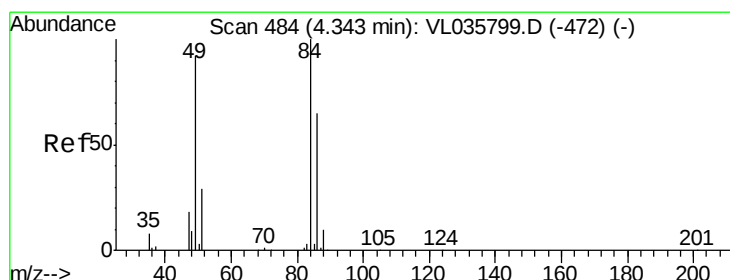
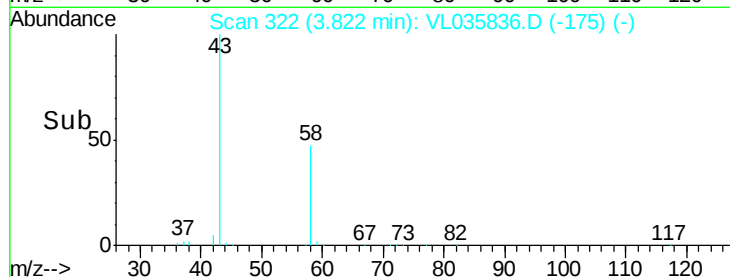
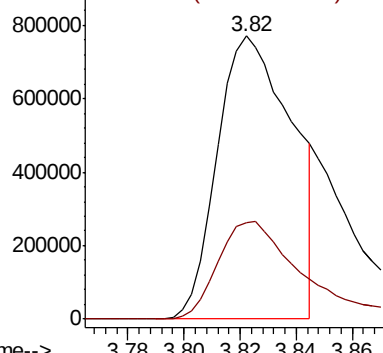
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.662 ppbv

RT: 4.32 min Scan# 477

Delta R.T. -0.02 min

Lab File: VL035836.D

Acq: 4 Nov 2020 16:52

Tgt Ion: 84 Resp: 51984

Ion Ratio Lower Upper

84 100

49 79.6 73.8 110.8

51 22.7 23.0 34.4#

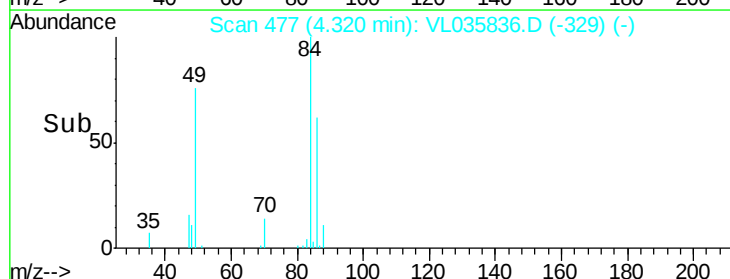
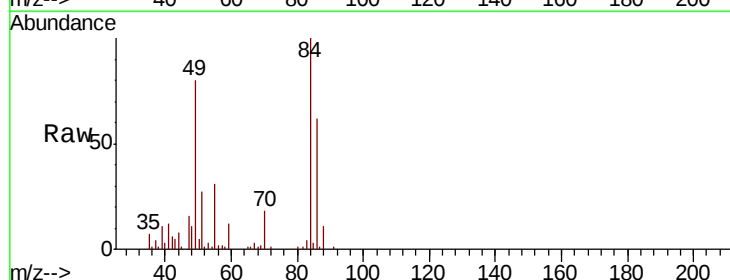
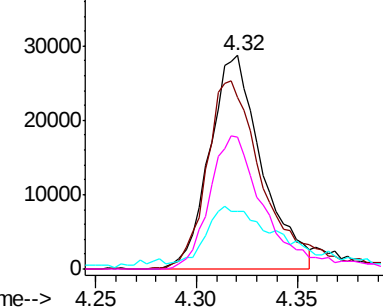
86 62.0 52.1 78.1

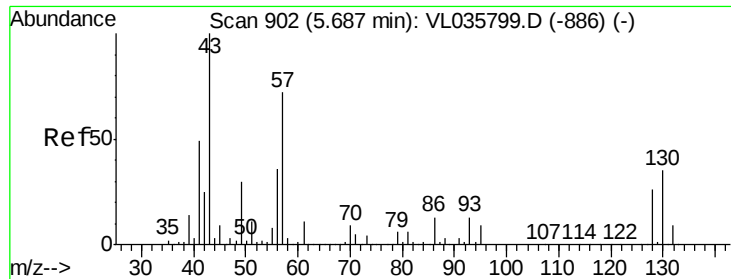
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





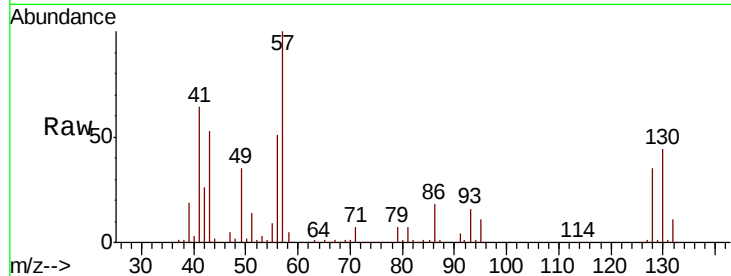
#26
Hexane
Concen: 8.084 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.03 min
Lab File: VL035836.D
Acq: 4 Nov 2020 16:52

Instrument :
MSVOA_L
ClientSampled :
SV4

Tot Ion	Ratio	Lower	Upper
57	100		
41	69.6	58.9	88.3
43	53.5	150.2	225.2#
56	54.3	42.4	63.6

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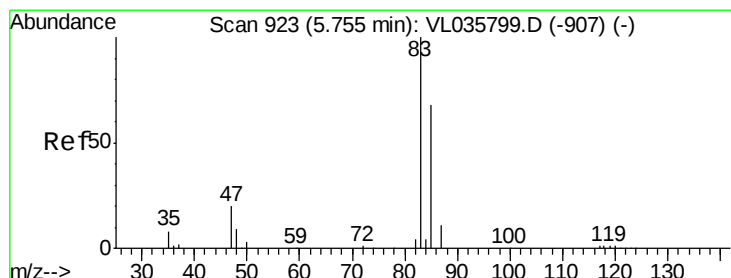
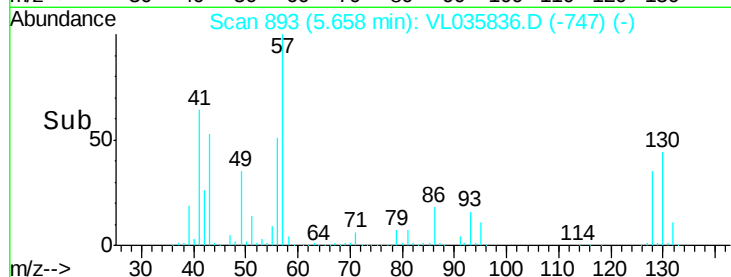
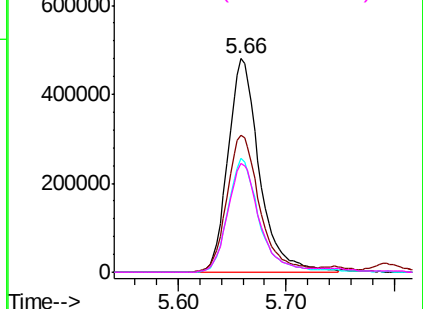
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

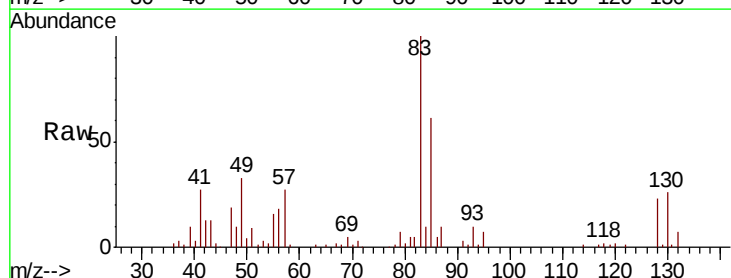
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#29
Chloroform
Concen: 0.369 ppbv
RT: 5.72 min Scan# 913
Delta R.T. -0.03 min
Lab File: VL035836.D
Acq: 4 Nov 2020 16:52

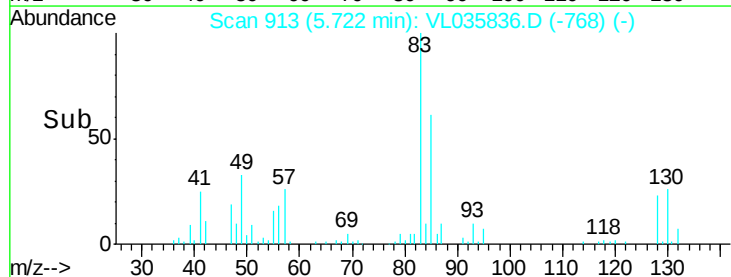
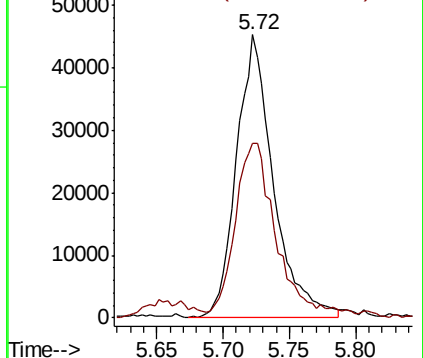
Tgt Ion	Ratio	Lower	Upper
83	100		
85	58.4	54.6	81.8

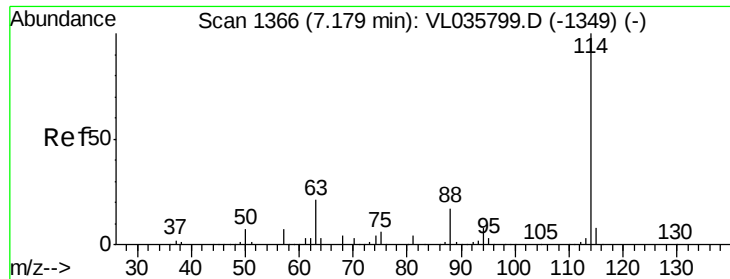


Abundance

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0





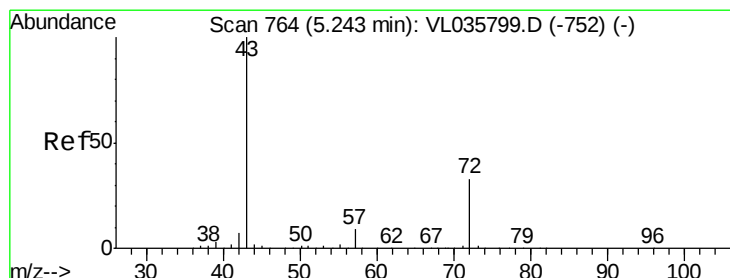
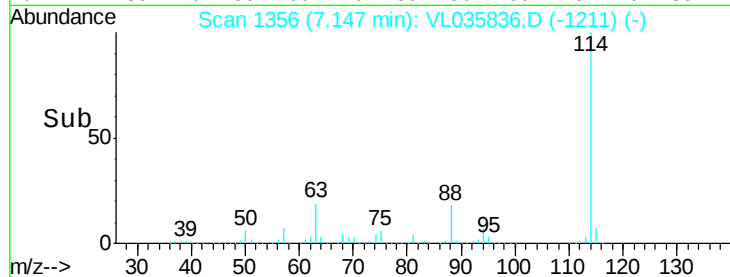
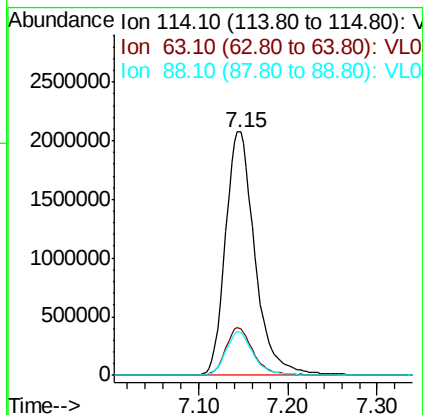
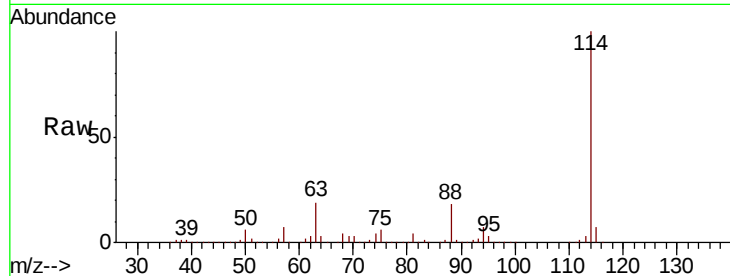
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1356
 Delta R.T. -0.03 min
 Lab File: VL035836.D
 Acq: 4 Nov 2020 16:52

Instrument :
 MSVOA_L
 ClientSampleId :
 SV4

Tot Ion:114 Resp: 4751713
 Ion Ratio Lower Upper
 114 100
 63 18.5 16.1 24.1
 88 16.7 13.7 20.5

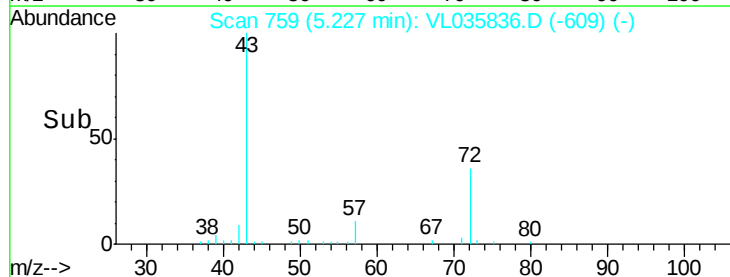
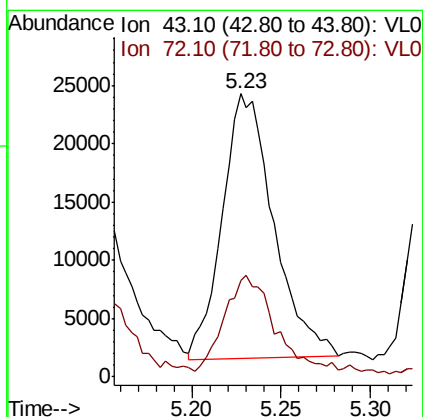
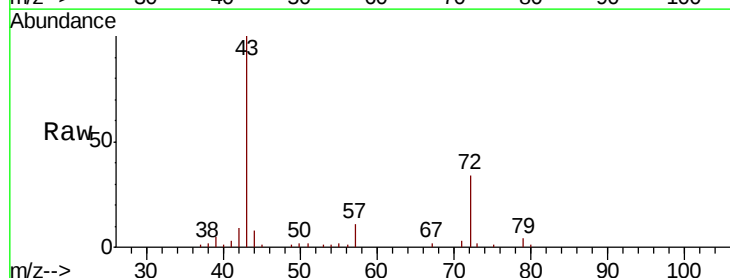
Manual Integrations
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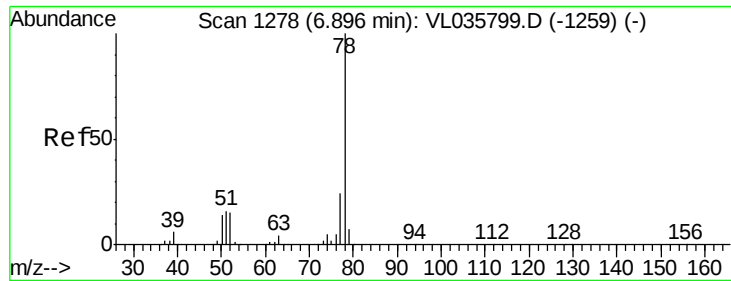
MMDadoda
 11/5/2020 2:16:52 PM



#34
 2-Butanone
 Concen: 0.295 ppbv
 RT: 5.23 min Scan# 759
 Delta R.T. -0.02 min
 Lab File: VL035836.D
 Acq: 4 Nov 2020 16:52

Tgt Ion: 43 Resp: 45551
 Ion Ratio Lower Upper
 43 100
 72 41.8 26.5 39.7#





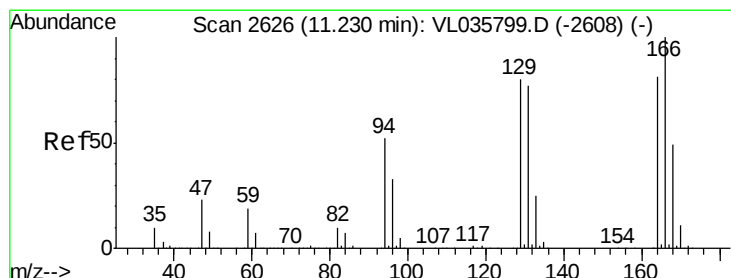
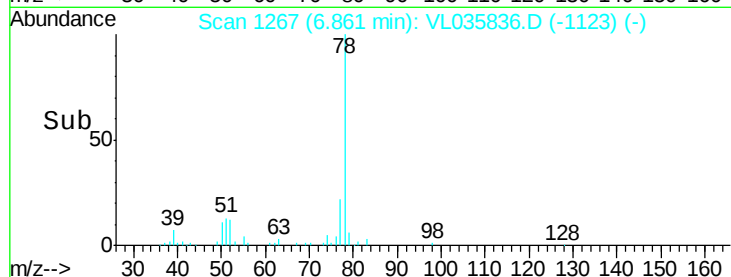
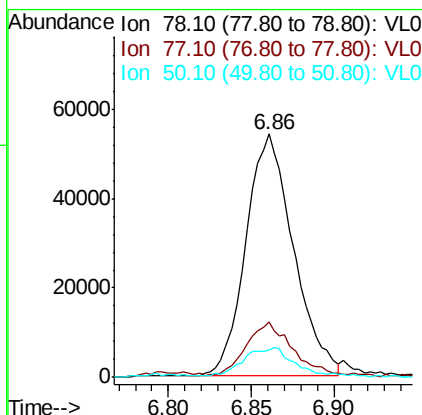
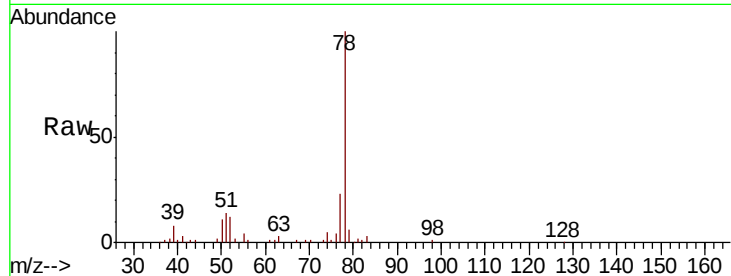
#36
Benzene
Concen: 0.306 ppbv
RT: 6.86 min Scan# 1267
Delta R.T. -0.04 min
Lab File: VL035836.D
Acq: 4 Nov 2020 16:52

Instrument :
MSVOA_L
ClientSampled :
SV4

Tot Ion	Ratio	Lower	Upper
78	100		
77	21.1	19.3	28.9
50	10.7	11.4	17.2#

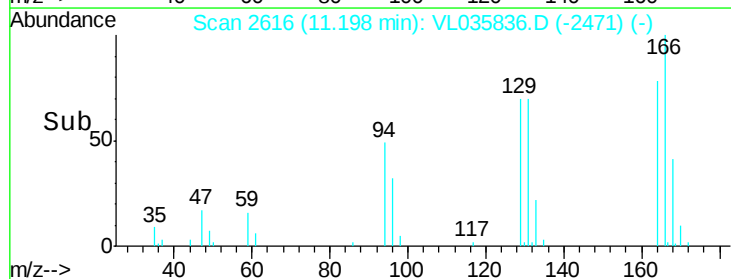
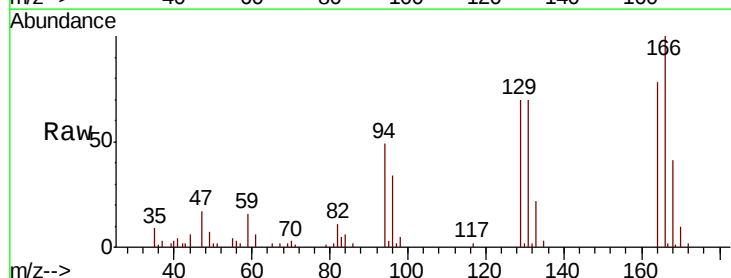
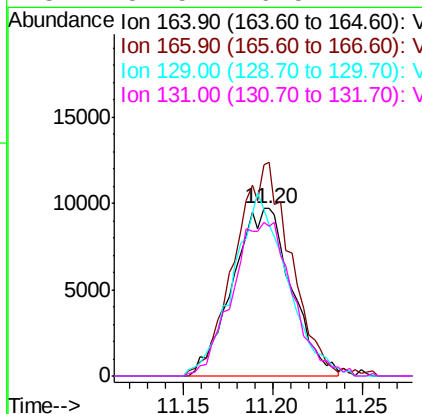
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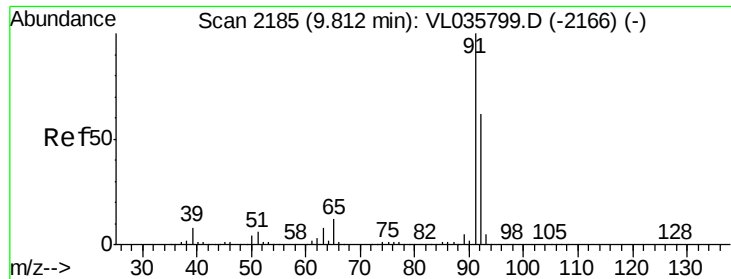
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#52
Tetrachloroethene
Concen: 0.133 ppbv
RT: 11.20 min Scan# 2616
Delta R.T. -0.03 min
Lab File: VL035836.D
Acq: 4 Nov 2020 16:52

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.3	99.3	148.9
129	86.4	79.3	118.9
131	87.5	76.5	114.7





#53

Toluene

Concen: 0.909 ppbv

RT: 9.78 min Scan# 2174

Delta R.T. -0.04 min

Lab File: VL035836.D

Acq: 4 Nov 2020 16:52

Instrument :

MSVOA_L

ClientSampled :

SV4

Tot Ion: 91 Resp: 387456

Ion Ratio Lower Upper

91 100

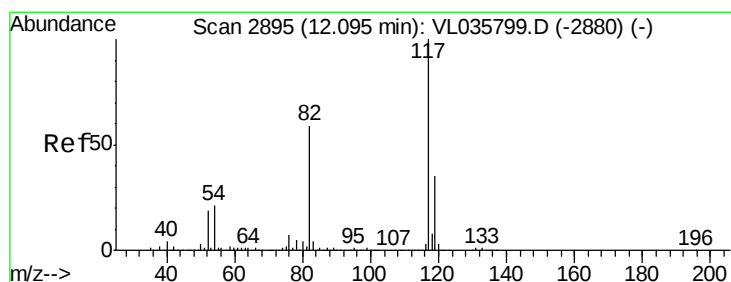
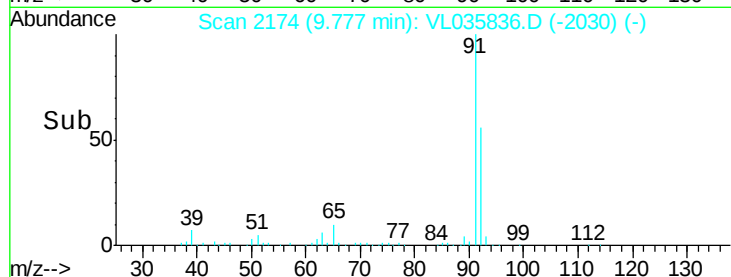
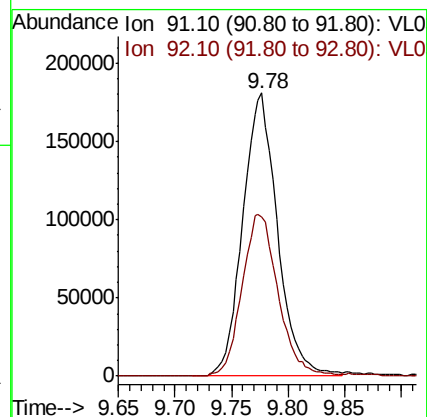
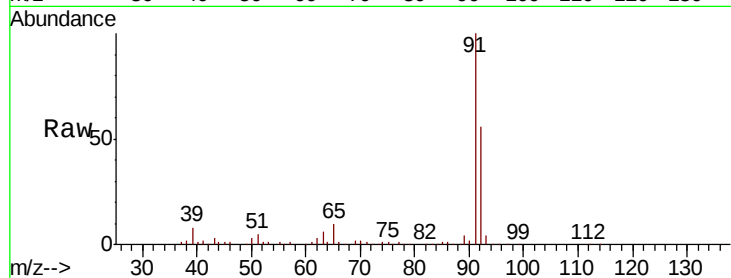
92 60.4 49.8 74.6

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2883

Delta R.T. -0.04 min

Lab File: VL035836.D

Acq: 4 Nov 2020 16:52

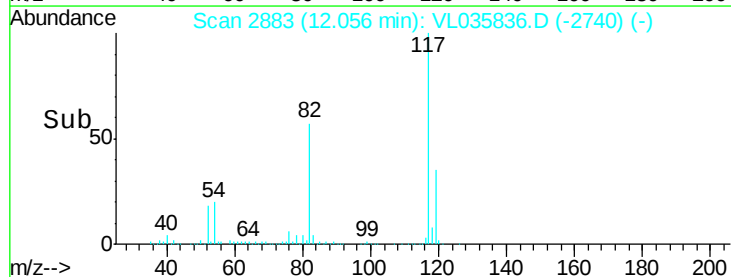
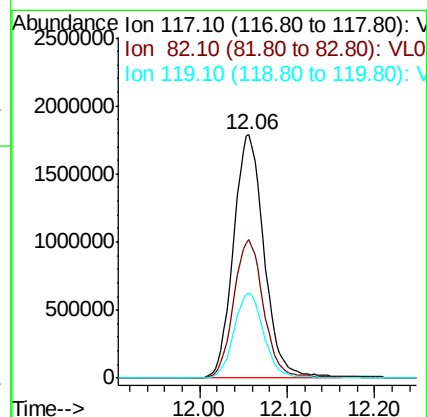
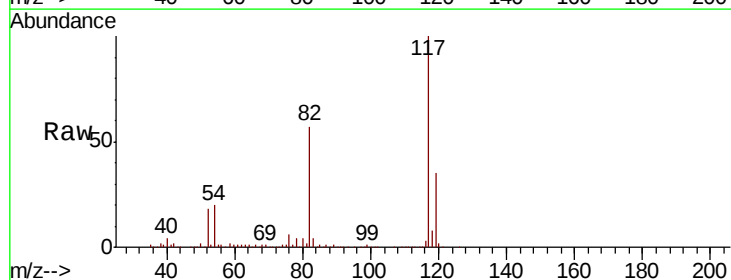
Tgt Ion: 117 Resp: 4358656

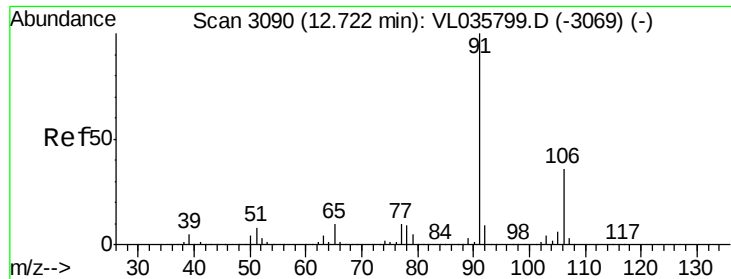
Ion Ratio Lower Upper

117 100

82 57.2 50.6 76.0

119 34.8 52.6 78.8#





#58

Ethyl Benzene

Concen: 0.329 ppbv

RT: 12.68 min Scan# 3076

Delta R.T. -0.05 min

Lab File: VL035836.D

Acq: 4 Nov 2020 16:52

Instrument :

MSVOA_L

ClientSampled :

SV4

Tot Ion: 91 Resp: 174747

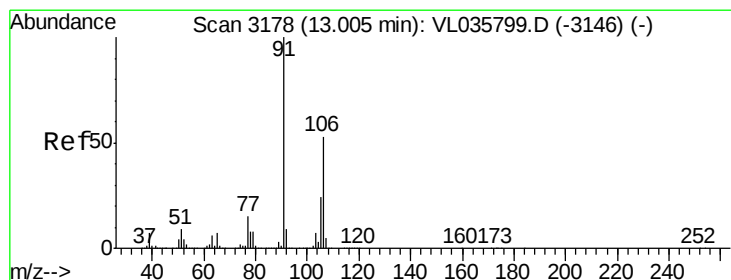
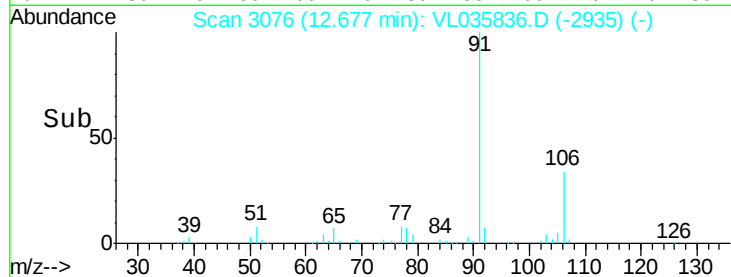
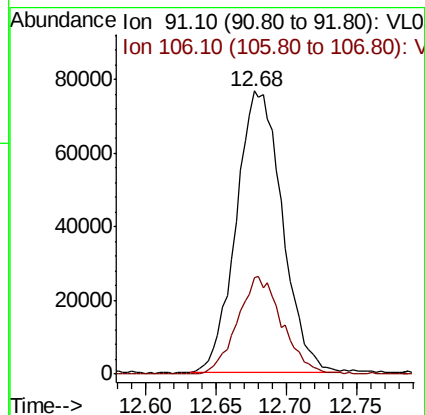
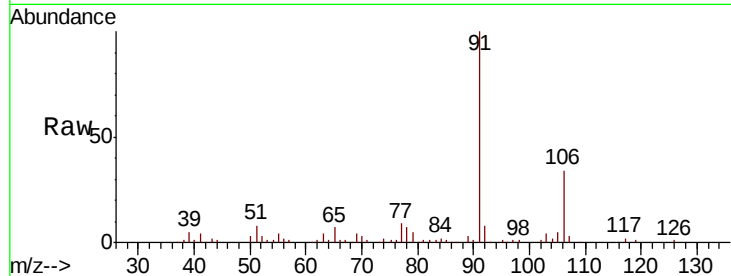
Ion Ratio Lower Upper

91 100

106 34.0 28.6 43.0

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#59

m/p-Xylene

Concen: 0.968 ppbv

RT: 12.94 min Scan# 3157

Delta R.T. -0.07 min

Lab File: VL035836.D

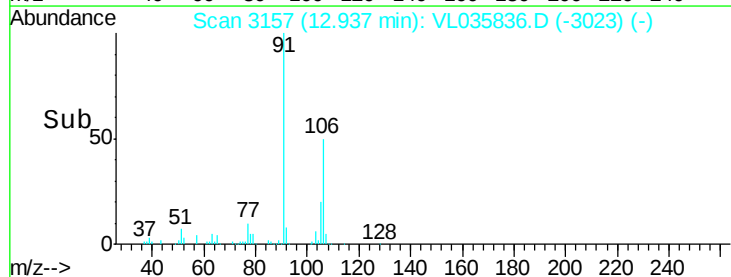
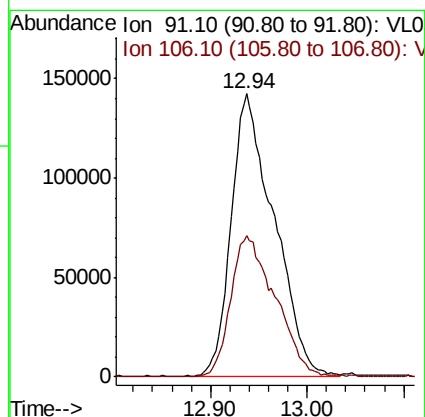
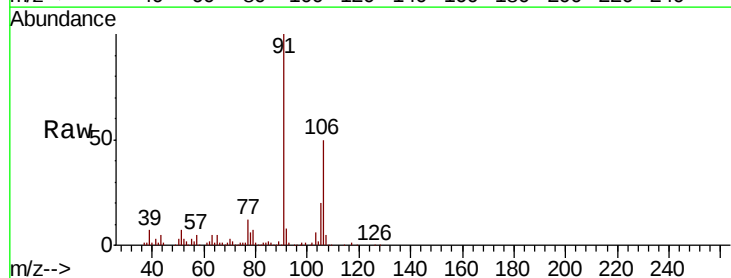
Acq: 4 Nov 2020 16:52

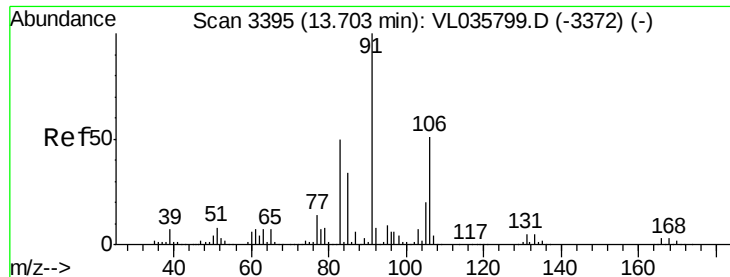
Tgt Ion: 91 Resp: 434899

Ion Ratio Lower Upper

91 100

106 52.4 39.5 59.3





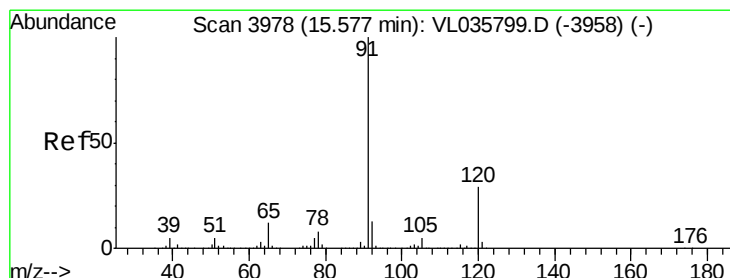
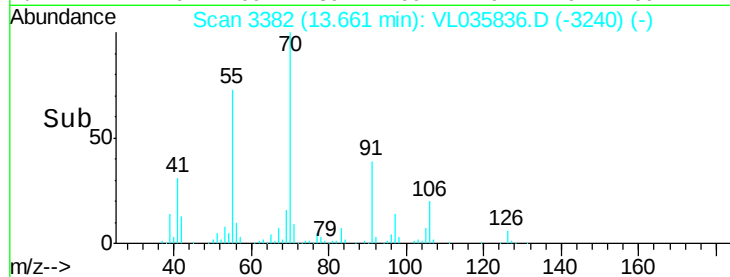
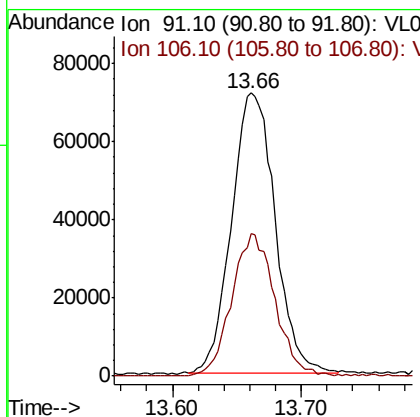
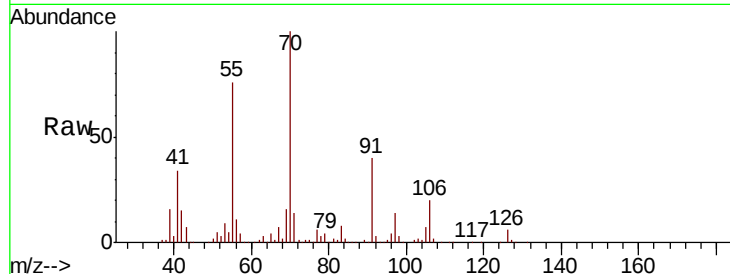
#60
o-Xylene
Concen: 0.384 ppbv
RT: 13.66 min Scan# 3382
Delta R.T. -0.04 min
Lab File: VL035836.D
Acq: 4 Nov 2020 16:52

Instrument :
MSVOA_L
ClientSampled :
SV4

Tot Ion: 91 Resp: 167919
Ion Ratio Lower Upper
91 100
106 50.7 24.8 74.4

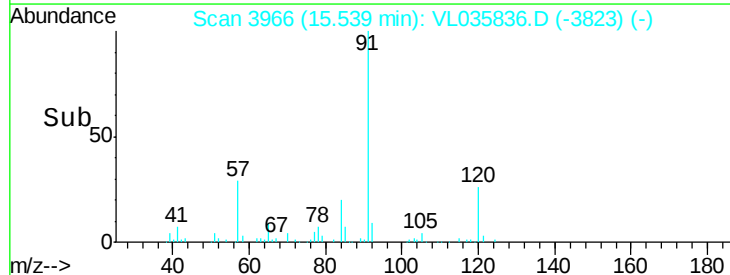
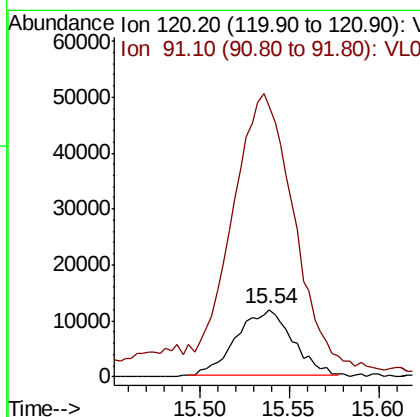
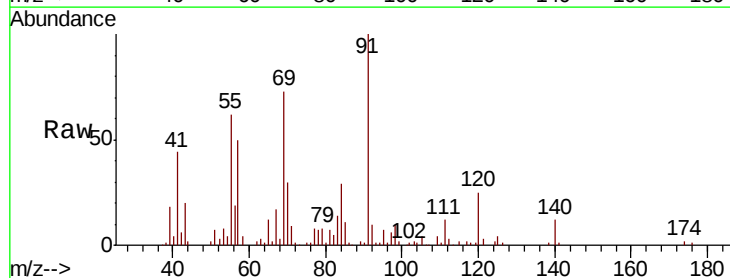
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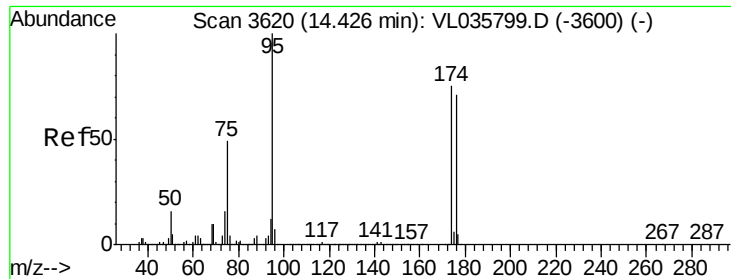
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#64
n-propylbenzene
Concen: 0.128 ppbv
RT: 15.54 min Scan# 3966
Delta R.T. -0.04 min
Lab File: VL035836.D
Acq: 4 Nov 2020 16:52

Tgt Ion: 120 Resp: 25410
Ion Ratio Lower Upper
120 100
91 508.2 311.1 466.7#





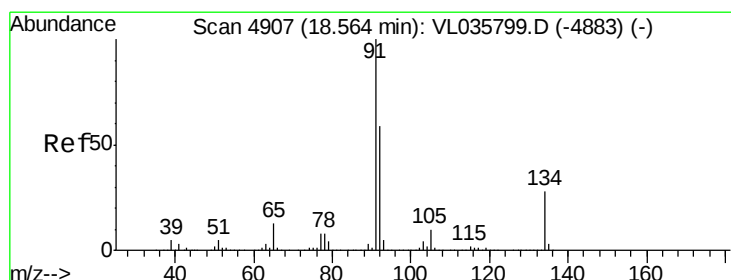
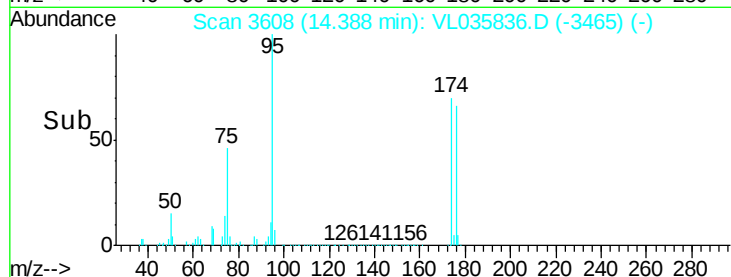
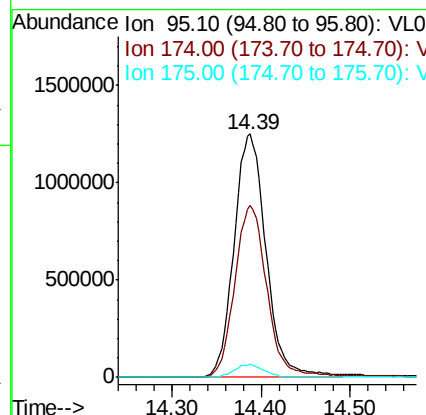
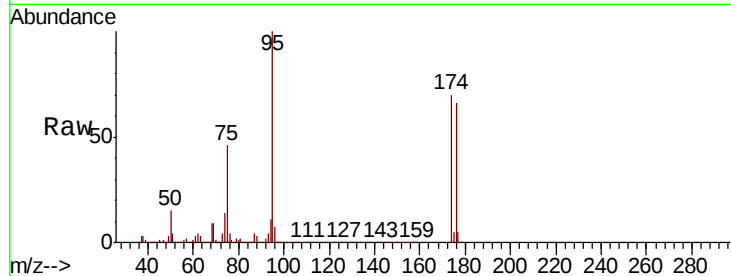
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.012 ppbv
 RT: 14.39 min Scan# 3608
 Delta R.T. -0.04 min
 Lab File: VL035836.D
 Acq: 4 Nov 2020 16:52

Instrument :
 MSVOA_L
 ClientSampled :
 SV4

Tot Ion: 95 Resp: 3100386
 Ion Ratio Lower Upper
 95 100
 174 72.6 59.8 89.6
 175 5.0 4.3 6.5

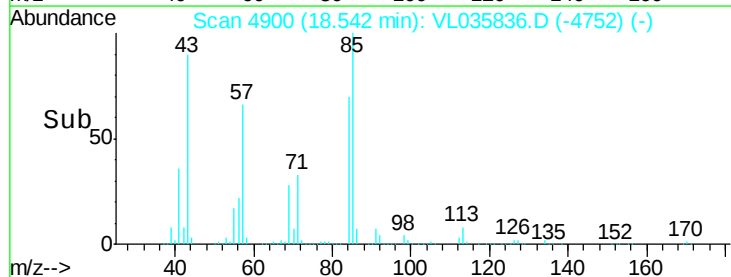
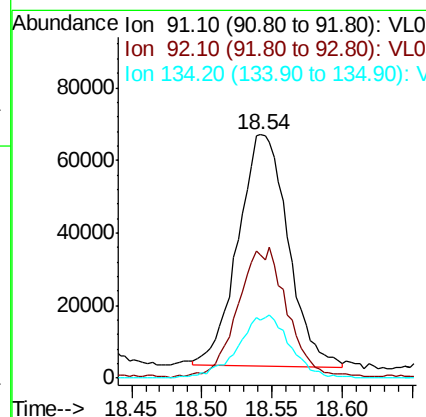
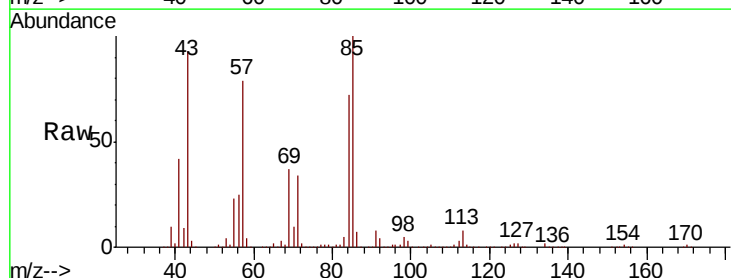
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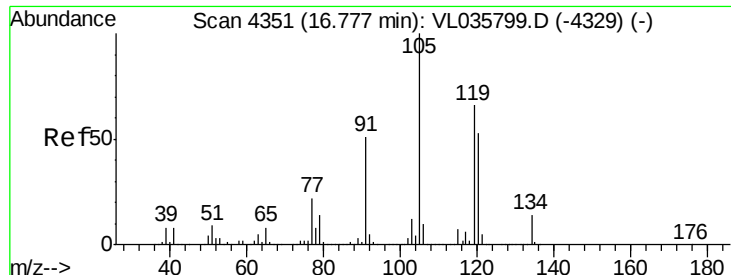
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#70
 n-Butylbenzene
 Concen: 0.238 ppbv
 RT: 18.54 min Scan# 4900
 Delta R.T. -0.02 min
 Lab File: VL035836.D
 Acq: 4 Nov 2020 16:52

Tgt Ion: 91 Resp: 159234
 Ion Ratio Lower Upper
 91 100
 92 54.1 45.7 68.5
 134 28.0 21.0 31.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.305 ppbv
 RT: 16.74 min Scan# 4339
 Delta R.T. -0.04 min
 Lab File: VL035836.D
 Acq: 4 Nov 2020 16:52

Instrument :
 MSVOA_L
 ClientSampleId :
 SV4

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	47.0	42.0	63.0
91	12.2	41.0	61.6#
77	14.7	17.3	25.9#

Manual Integrations
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